

## CLAIMS

1. A high pressure sensor mounting configuration comprising:
  - a cylindrical pressure sensor cavity comprising
  - 5 a convex conical open end, and
  - a first bearing surface;
  - an internally threaded collet comprising a second bearing surface that bears on the first bearing surface when the internally threaded collet is threaded onto a pressure port, causing the convex or concave conical open
  - 10 end to bear on a concave or convex conical mating surface of the pressure port; and
  - a housing that captures the internally threaded collet on the cylindrical pressure sensor cavity.
- 15 2. The high pressure sensor mounting configuration according to claim 1, wherein the cylindrical pressure sensor cavity further comprises a flange to which the housing is affixed.
- 20 3. The high pressure sensor mounting configuration according to claim 1, wherein the first contact surface of the cylindrical pressure sensor cavity has first angle and the second contact surface of the internally threaded collet has a second angle that provide a line contact when the internally threaded collet is threaded onto the pressure port, and a third angle of the convex or concave conical open end provides a line contact to the concave or convex conical
- 25 mating surface of the pressure port.
4. The high pressure sensor mounting configuration according to claim 3, wherein a clearance of the internally threaded collet to the cylindrical pressure sensor cavity and the first, second, and third angles are such as to allow a high
- 30 pressure seal when the pressure sensor cavity is axially misaligned with the pressure port.
5. The high pressure sensor mounting configuration according to claim 1 wherein the housing is an electrical connector housing.

6. The high pressure sensor mounting configuration according to claim 1,  
wherein the cylindrical pressure sensor cavity has a groove that provides  
lateral stress relief to the cylindrical pressure sensor cavity.

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